

10/14-W2010-Wei

Instruction Sheet 739 588

LIN BUS PC Interface USB

**1 Description**

The Baby-LIN makes it possible to operate devices with a LIN bus interface using a commercially available PC. Only a USB connection is required on the PC side. A Monitor mode allows for listening in on the LIN bus, along with operation as LIN slave without an LDF file.

2 Properties

- Electrical isolation of USB and LIN bus
- Monitor function (passively listening in) with time information
- Master function (controlling the LIN bus) and Slave function (playing subscribers), and combination of both

3 Technical Data

- Supported LIN versions V.1.2, V.1.3, V.2.0, V.2.1
- USB 2.0 interface
- Alternatively USB (55 mA / 5 V) or LIN bus (70 mA / 12 V) supply

4 Description**4.1 Installing the Hardware**

Before connecting the LIN adapter to a USB socket on your PC, insert the enclosed "739 588, LIN Bus Adapter" CD into your CD-ROM drive. If the Auto Start function is not deactivated, the selected software launches with the following screen:

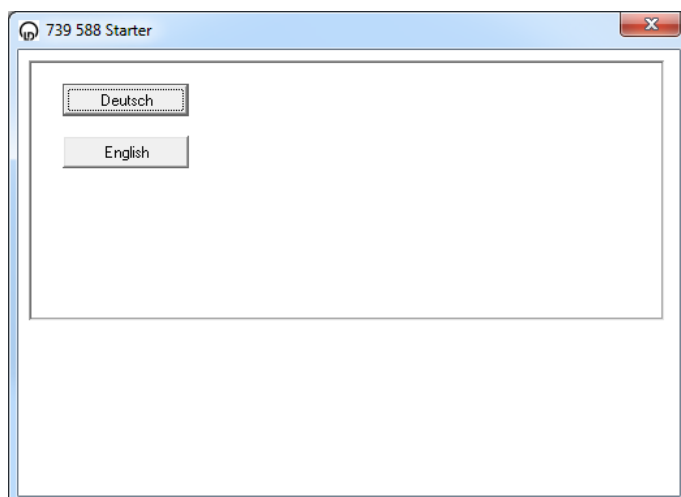


Fig. 1

Choose "English" for example:

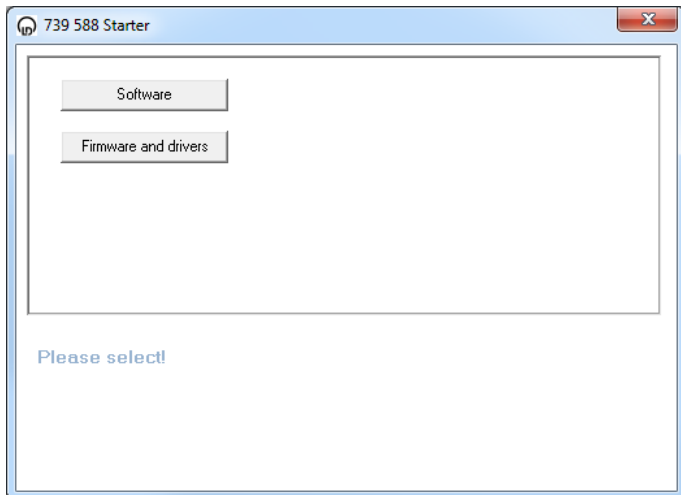


Fig. 2

Here, choose Software:

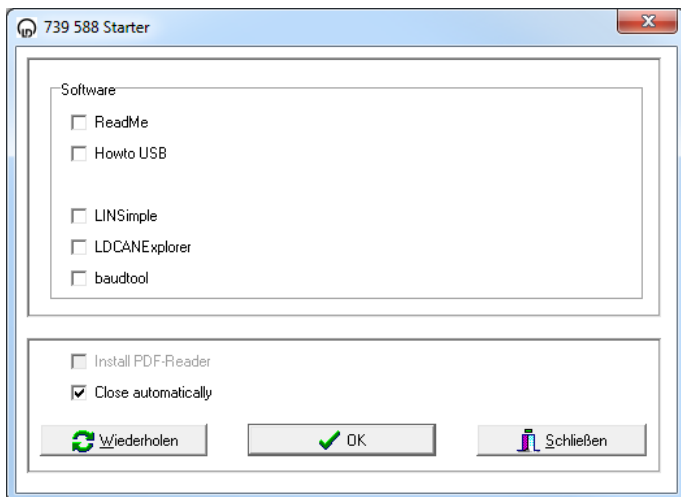


Fig. 3

And then first choose "LIN driver." Click OK and follow the instructions.

If this option does not appear, you can also install the driver manually:

Start the program from your CD drive:\GER\LIN-Treiber\PreInstl.exe and follow the instructions.

4.2 Installing the Application Software

First insert the LIN adapter into a free USB 2.0 port and follow the instructions, if any. Further information on this topic is available on the CD under "USB Instructions" (cf. Fig. 3).

To install the application software, check the "LINSimple" entry (Fig. 3) and click OK. This installs a simple software to take notes on the LIN data.

You can also start this program manually by running the file at CD drive:\GER\LINSimple\SimpleMenu.exe.

The following interface appears:

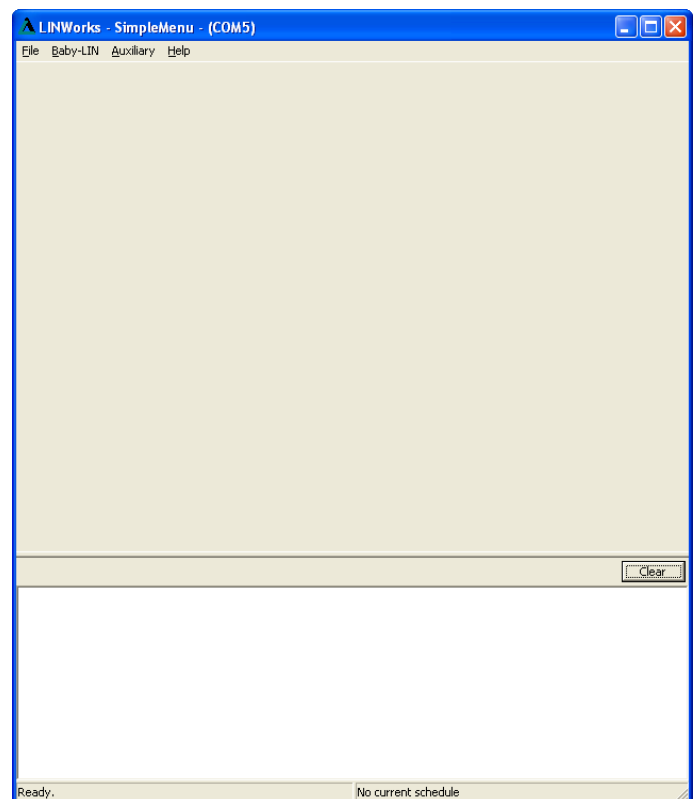


Fig. 4

You must then first select the COM interface using the LIN adapter. To find this, proceed as follows (Windows XP – the procedure is similar for other versions of Windows; in case of doubt, consult the manual).

Start > Settings > Control Panel > System > "Hardware" tab > Device Manager > Ports

The entry "Baby-LIN LIN-Bus Interface" should appear here in front of the associated COM port, in the example shown here COM5.

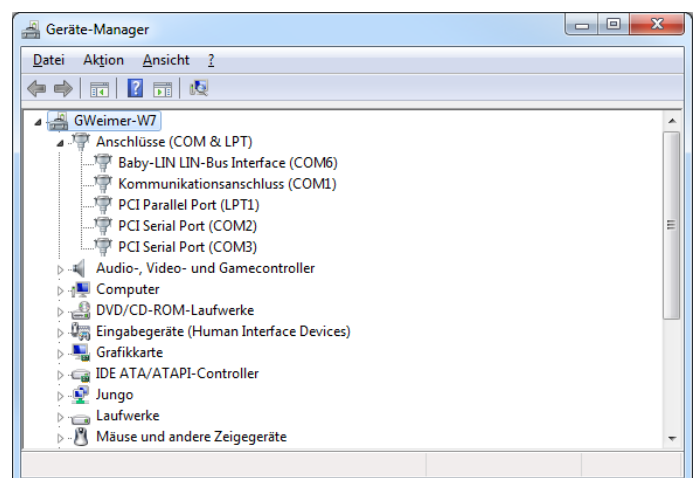


Fig. 5

In the "LINWorks - SimpleMenu" software, select the interface in the pull-down menu "Baby-LIN" (Fig. 4):

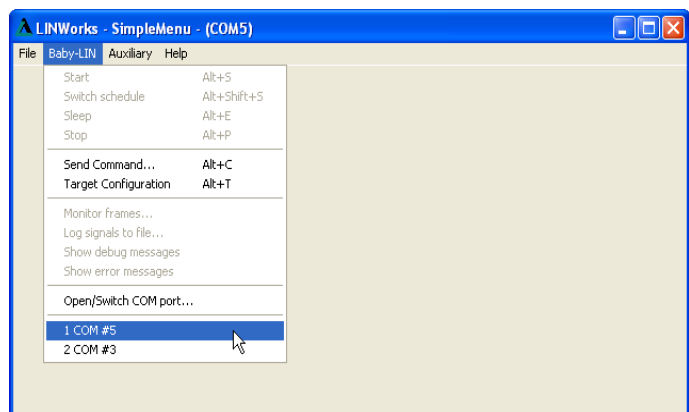


Fig. 6

4.3 Connecting the LIN System

Link the LIN adapter's connecting leads to the ground (GND connection) and to the 12-15 V= electrical system voltage (VCC connection). Link the port with the LIN label to your LIN bus line at any point.

The LIN bus is part of the following systems:

739 586	Training panel LIN bus
739 584	Training panel, infotainment
739 5841	Training panel, vehicle communications and various functional cars

Put the educational system into operation.

4.4 Recording Data

In the LINWorks software from Fig. 4, choose the "File" drop-down menu then the "Pure Monitor Mode" item:

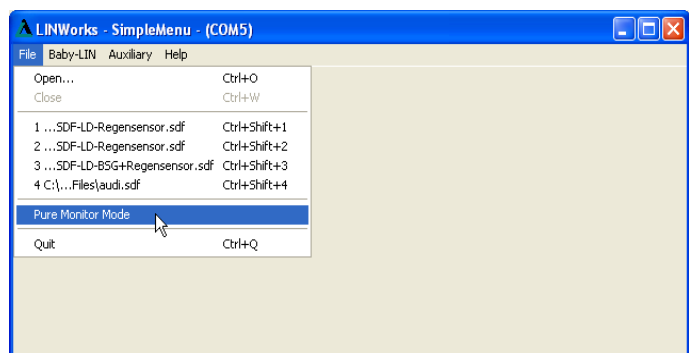


Fig. 7

The following screen appears with the LIN data:

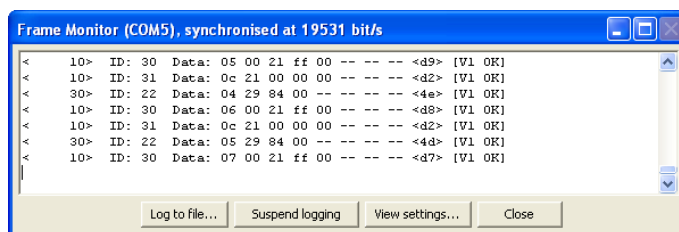


Fig. 8

For further interpretation of this data, consult the accompanying literature for the system you are using.

4.5 Analyzing Data

The LD software "LDCANExplorer," 739 587, can both record and analyze this data. Please read the relevant Help file for the procedure to follow.

5. Further Information

The CD-ROM provides further information and support in the "Readme" directory. So does the website www.lipowsky.de.